

What is claimed is:

1. A heat exchanger comprising:

5        a plurality of heat-transmitting plate members disposed adjacent to each other, each of which has an inner fluid passage member and a tank member integrally formed therein, wherein each plate member is connected to another plate member to form a core of a heat exchanger, a tank portion defined by said tank member communicates with an inner fluid passage defined by said inner

10        fluid passage member:

      wherein said plurality of heat-transmitting plate members are made from resin material.

2. A heat exchanger according to claim 1, wherein said tank

15        member has a thickness in a direction in which said plurality of heat-transmitting plate members are disposed adjacent to each other, thicker than that of said inner fluid passage member in said direction.

20        3. A heat exchanger according to claim 1, wherein each

heat-transmitting plate member includes two plates, each of which has a base plate portion which is attached to a base plate portion of another plate, wherein said inner fluid passage member projects outwardly with respect to said base plate portion when said two plates are attached to one another, and has a trapezoidal-like exterior shape.